

## DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PRODUCTION OF A GaN BULK CRYSTAL SUBSTRATE AND A SEMICONDUCTOR DEVICE  
FORMED ON A GaN BULK CRYSTAL SUBSTRATE

(Title of Invention)

the specification of which:  
(check one)

\_\_\_\_\_ is attached hereto.

X was filed on June 8, 2000

Application Serial No. 09/590,063

and was amended by \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

<u>Number</u>	<u>Country</u>	<u>Filing Date</u>	<u>Yes</u>	<u>No</u>
Patent Applications No.11-162411	Japan	9/June/1999	X	
No.11-237195	Japan	24/August/1999	X	
No.11-277045	Japan	29/September/1999	X	
No.11-295039	Japan	18/October/1999	X	

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States Application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

And I hereby appoint Ivan S. Kavrukov (Reg. No. 25161), Thomas F. Moran (Reg. No. 16579; Christopher C. Dunham (Reg. No. 22031); Norman H. Zivin (Reg. No. 25385), John P. White (Reg. No. 28678); Robert D. Katz (Reg. No. 30141); Peter J. Phillips (Reg. No. 29691); Richard S. Milner (Reg. No. 33970); Gerard M. Wissing (Reg. No. 36309); Richard F. Jaworski (Reg. No. 33515); and George M. Macdonald (Reg. No. 39284) and each of them, all c/o Cooper & Dunham LLP of 1185 Avenue of the Americas, New York, New York 10036 (Tel. 212-278-0400), my attorneys, each with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, to transact all business in the Patent and Trademark Office connected herewith and to file any International Applications which are based thereon under the provisions of the Patent Cooperation Treaty.

Please address all communications, and direct all telephone calls, regarding this application to:

Ivan S. Kavrukov Reg. No. 25161

Cooper & Dunham LLP  
1185 Avenue of the Americas  
New York, New York 10036  
Tel. (212) 278-0400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first joint inventor SEIJI SARAYAMA

Inventor's signature Seiji Sarayama

Citizenship Japan Date of signature September 22, 2000

Residence Miyagi, Japan

Post Office Address c/o RICOH COMPANY, LTD.,  
3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan

Full name of joint  
inventor (if any) \_\_\_\_\_

MASAHIKO SHIMADA

Inventor's signature \_\_\_\_\_

*Masahiko Shimada*

Citizenship \_\_\_\_\_ Japan

Date of signature \_\_\_\_\_

*September 22, 2000*

Residence \_\_\_\_\_ Miyagi, Japan

Post Office Address \_\_\_\_\_  
c/o RICOH COMPANY, LTD.,  
3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan

Full name of joint  
inventor (if any) \_\_\_\_\_

HISANORI YAMANE

Inventor's signature \_\_\_\_\_

*Hisanori Yamane*

Citizenship \_\_\_\_\_ Japan

Date of signature \_\_\_\_\_

*September 22, 2000*

Residence \_\_\_\_\_ Miyagi, Japan

Post Office Address \_\_\_\_\_  
c/o RICOH COMPANY, LTD.,  
3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan

Full name of joint  
inventor (if any) \_\_\_\_\_

HIROKAZU IWATA

Inventor's signature \_\_\_\_\_

*Hirokazu Iwata*

Citizenship \_\_\_\_\_ Japan

Date of signature \_\_\_\_\_

*September 22, 2000*

Residence \_\_\_\_\_ Miyagi, Japan

Post Office Address \_\_\_\_\_  
c/o RICOH COMPANY, LTD.,  
3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan

Full name of joint  
inventor (if any) \_\_\_\_\_

Inventor's signature \_\_\_\_\_

Citizenship \_\_\_\_\_

Date of signature \_\_\_\_\_

Residence \_\_\_\_\_

Post Office Address \_\_\_\_\_